

Chinese Optics Letters

Volume 18
Number 2
February 2020
col.clp.ac.cn

Fiber Optics and Optical Communications

- Dual-channel microfluidic sensor based on side-hole fiber with two long-period fiber gratings *Yu Zhang, Yongzhi Li, Chao Liu, Zhihai Liu, Yaxun Zhang, Xinghua Yang, Jianzhong Zhang, Jun Yang, and Libo Yuan* 020601
- Highly efficient excitation of LP₀₁ mode in ring-core fibers by tapering for optimizing OAM generation *Chunxiang Zhang, Fufei Pang, Huanhuan Liu, Lifei Chen, Junfeng Yang, Jianxiang Wen, and Tingyun Wang* 020602
- Stable RF transfer over a fiber-optic ring with DSBCS modulation and a DSB RF signal *Pingyang Shi, Guiling Wu, Liang Hu, Qi Li, and Jianping Chen* 020603
- Analysis of detection error for spot position in fiber nutation model *Xueqiang Zhao, Yunpeng Zhang, Minjie Huang, Peipei Hou, Ren Zhu, Jianfeng Sun, Xia Hou, and Weibiao Chen* 020604

Holography

- Multi-reference lens-less Fourier-transform holography with a Greek-ladder sieve array *Jing Xie, Junyong Zhang, Xue Pan, Shenlei Zhou, and Weixin Ma* 020901
- Real-time electroholography using a single spatial light modulator and a cluster of graphics-processing units connected by a gigabit Ethernet network *Hiromi Sannomiya, Naoki Takada, Tomoya Sakaguchi, Hirotaka Nakayama, Minoru Oikawa, Yuichiro Mori, Takashi Kakue, Tomoyoshi Shimobaba, and Tomoyoshi Ito* 020902

Optical Sensing, Measurements, and Metrology

- Simultaneous measurement of SO₂ and NO₂ concentration using an optical fiber-based LP-DOAS system *Jieshu Zou and Fei Wang* 021201
- All-reflective self-referenced spectral interferometry for single-shot measurement of few-cycle femtosecond pulses in a broadband spectral range [Editors' Pick] *Zhe Si, Xiong Shen, Jingxin Zhu, Lei Lin, Lihua Bai, and Jun Liu* 021202
- A new phase-shifted long-period fiber grating for simultaneous measurement of torsion and temperature *Cuiting Sun, Ran Wang, Xiren Jin, Zemin Wang, Weiliang Liu, Shuo Zhang, Yiwei Ma, Jingyu Lin, Yue Li, Tao Geng, Weimin Sun, Zhongquan Qu, and Libo Yuan* 021203

Contents continued

Non-intrusive flow measurement based on a distributed feedback fiber laser *Jiasheng Ni, Ying Shang, Chen Wang, Wenan Zhao, Chang Li, Bing Cao, Sheng Huang, Chang Wang, and Gangding Peng* 021204

Lasers and Laser Optics

1.5 J high-beam-quality Nd:LuAG ceramic active mirror laser amplifier *Jianlei Wang, Kaiqi Zhao, Tao Feng, Xiaolei Zhu, and Weibiao Chen* 021401

Alignment and efficiency-monitoring method of high-power fiber-to-fiber coupling *Qingqing Kong, Yiqiu Jing, Hua Shen, Shiwei Deng, Zhigang Han, and Rihong Zhu* 021402

Laser-induced damage and periodic stripe structures of a CaF₂ single crystal by an ArF excimer laser *Jingzhen Shao, Xu Liang, Libing You, Ning Pan, Ying Lin, Shimao Wang, Zanhong Deng, Xiaodong Fang, and Xi Wang* 021403

Nonlinear Optics

Dynamic relaxation process of a 3D super crystal structure in a Cu:KTN crystal [Editors' Pick] *Quanzin Yang, Xin Zhang, Hongliang Liu, Xuping Wang, Yingying Ren, Shan He, Xiaojin Li, and Pengfei Wu* 021901

Ultra-broadband enhanced nonlinear saturable absorption for Mo_{0.53}W_{0.47}Te₂ nanosheets *Zhengting Du, Hui Wu, Tianqi Zhang, Zhenda Xie, Yangyang Lü, Xinjie Lü, Jinlong Xu, Gang Zhao, and Shining Zhu* 021902

Ultrafast Optics

Time-resolved study of the lasing emission from high vibrational levels of N₂⁺ pumped with circularly polarized femtosecond pulses *Dongjie Zhou, Xiang Zhang, Qi Lu, Qingqing Liang, and Yi Liu* 023201

Terahertz wave emission from water lines *Shijia Feng, Liquan Dong, Tong Wu, Yong Tan, Rui Zhang, Liangliang Zhang, Cunlin Zhang, and Yuejin Zhao* 023202

Nanophotonics

Ultrafast direct laser writing of 2D materials for multifunctional photonics devices [On the Cover] *Tieshan Yang, Han Lin, and Baohua Jia* 023601

The color images are shown online.